

TITLE ADDCN3

/1 SUITE - PCB LAYOUT
/2 PROGRAM TITLE : REDAL 20
/3 ROUTINE TITLE : ADDCN3

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/ CUSTOMER; THE CONTENTS OR DETAILS OF ITS OPERATION MAY ONLY
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/ A KNOWLEDGE OF THE SOFTWARE CODING TO CARRY OUT THEIR JOB.
/ DISCLOSURE TO ANY OTHER PERSON MUST HAVE THE PRIOR AUTHORISATION
/ FROM THE DIRECTORS OF REDAC SOFTWARE LIMITED.

/6 PURPOSE : TO GENERATE THE CODE FOR A CONNECTION BETWEEN
/ PIN1 ON COMPONENT NAME1 TO PIN2 ON COMPONENT NAME2

/7 CALLING SEQUENCE AND DESCRIPTION OF ARGUMENTS:
/ CALL ADDCN3(NAME1,PIN1,NAME2,PIN2,WIDTH,MODE)
/ NAME1 - 1ST COMPONENT
/ PIN1 - PAD NO ON 1ST COMPONENT
/ NAME2 - 2ND COMPONENT
/ PIN2 - PAD NO ON 2ND COMPONENT
/ WIDTH - WIDTH OF CONNECTION
/ MODE -

/9 REGISTERS USED: MQ, IX, AIR 13

/10 COMMON AREAS: LIBRY COMPS SIZE EOLBAD EOCMA

/12 GLOBALS: ADDCN3 SUBNOD DFADDR .DA

/ .GLOBL ADDCN3,SUBNOD,DFADDR,.DA

00000 R 000000 A LIBRY .CBD LIBRY 1
00001 R 000000 A COMPS .CBD COMPS 1
00002 R 000000 A SIZE .CBD SIZE 1
00003 R 000000 A EOLIB .CBD EOLBAD 1
00004 R 000000 A EOCOMP .CBD EOCMA 1
00005 R 000000 A CONN .CBD CONNX 1
00006 R 000000 A ROUTES .CBD ROUTE 1
00007 R 740040 A ADDCN3 XX
00010 R 121021 E JMS* .DA
00011 R 600021 R JMP .+10
00012 R 000000 A NAME1 0
00013 R 000000 A PIN1 0
00014 R 000000 A NAME2 0
00015 R 000000 A PIN2 0
00016 R 000000 A WIDTH 0
00017 R 000000 A MODE 0

1 FOR CONNS IN ROUTES ARRAY

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53
54 00020 R 000000 A EOCONN 0 /
55 00021 R 220005 R LAC* CONN
56 00022 R 040775 R DAC CONNEX*
57 00023 R 220000 R LAC* LIBRY
58 00024 R 041003 R DAC LIB*
59 00025 R 220001 R LAC* COMPS
60 00026 R 040774 R DAC COMPON*
61 00027 R 200002 R LAC SIZE
62 00030 R 723003 A AAC 3
63 00031 R 040776 R DAC CONSZ*
64 00032 R 200774 R LAC COMPON
65 00033 R 360004 R TAD* EOCOMP
66 00034 R 723777 A AAC -1
67 00035 R 041004 R DAC N2* /ADDRESS OF 1ST FREE WORD
68 00036 R 777776 A LAW -2
69 00037 R 040755 R DAC ERROR /ERROR=-2
70 00040 R 200012 R LAC NAME1
71 00041 R 740030 A IAC
72 00042 R 040751 R DAC NAME11
73 00043 R 200014 R LAC NAME2
74 00044 R 740030 A IAC
75 00045 R 040752 R DAC NAME22
76 00046 R 220012 R LAC* NAME1
77 00047 R 040765 R DAC MESS1+2
78 00050 R 220751 R LAC* NAME11
79 00051 R 040766 R DAC MESS1+3
80 00052 R 220014 R LAC* NAME2
81 00053 R 040771 R DAC MESS2+2
82 00054 R 220752 R LAC* NAME22
83 00055 R 040772 R DAC MESS2+3
84 00056 R 141001 R DZM FLAG1*
85 00057 R 141002 R DZM FLAG2*
86 00060 R 220020 R LAC* EOCONN
87 00061 R 723011 A AAC 11
88 00062 R 740031 A TCA
89 00063 R 360776 R TAD* CONSZ
90 00064 R 741100 A SPA
91 00065 R 600572 R JMP FULLUP / CONN ARRAY FULL
92 00066 R 200774 R LAC COMPON
93 00067 R 723772 A AAC -6
94 00070 R 723006 A FINDIT AAC 6
95 00071 R 041013 R DAC RELPTR*
96 00072 R 541004 R SAD N2
97 00073 R 600600 R JMP ABSENT
98 00074 R 723003 A AAC 3
99 00075 R 040750 R DAC TEMP
100 00076 R 220750 R LAC* TEMP
101 00077 R 741200 A SNA
102 00100 R 600147 R JMP LAB1 /THIS COMP IS DELETED
103 00101 R 200750 R LAC TEMP
104 00102 R 723776 A AAC -2

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105	00103 R 040750 R	TEMP
106	00104 R 220750 R	LAC* TEMP
107	00105 R 440750 R	ISZ TEMP
108	00106 R 560012 R	SAD* NAME1
109	00107 R 741000 A	SKP
110	00110 R 600124 R	JMP LAB2 /1ST WORD OF NAME DIFFERS
111	00111 R 220750 R	LAC* TEMP
112	00112 R 260751 R	XOR* NAME11
113	00113 R 501022 R	AND (777400
114	00114 R 740200 A	SZA
115	00115 R 600124 R	JMP LAB2 /2ND WORD OF NAME DIFFERS
116	00116 R 201013 R	LAC RELPTR
117	00117 R 041006 R	DAC POS1* /ADDRESS OF FIRST WORD NAME1
118	00120 R 441001 R	ISZ FLAG1
119	00121 R 440755 R	ISZ ERROR
120	00122 R 741000 A	SKP
121	00123 R 600151 R	JMP LAB3
122	00124 R 200750 R	LAB2 LAC TEMP
123	00125 R 723777 A	AAC -1
124	00126 R 040750 R	DAC TEMP
125	00127 R 220750 R	LAC* TEMP
126	00130 R 560014 R	SAD* NAME2
127	00131 R 741000 A	SKP
128	00132 R 600147 R	JMP LAB1 /1ST WORD NAME2 DIFFERS
129	00133 R 440750 R	ISZ TEMP
130	00134 R 220750 R	LAC* TEMP
131	00135 R 260752 R	XOR* NAME22
132	00136 R 501022 R	AND (777400
133	00137 R 740200 A	SZA
134	00140 R 600147 R	JMP LAB1 /2ND WORD NAME2 DIFFERS
135	00141 R 201013 R	LAC RELPTR
136	00142 R 041007 R	DAC POS2* /ADDRESS OF FIRST WORD NAME2
137	00143 R 441002 R	ISZ FLAG2
138	00144 R 440755 R	ISZ ERROR
139	00145 R 600070 R	JMP FINDIT
140	00146 R 600151 R	JMP LAB3
141	00147 R 201013 R	LAB1 LAC RELPTR
142	00150 R 600070 R	JMP FINDIT
143	00151 R 220013 R	LAB3 LAC* PIN1
144	00152 R 560015 R	SAD* PIN2
145	00153 R 741000 A	SKP
146	00154 R 600160 R	JMP .+4
147	00155 R 201006 R	LAC POS1
148	00156 R 541007 R	SAD POS2
149	00157 R 600646 R	JMP SAMPAD
150	00160 R 220013 R	LAC* PIN1
151	00161 R 741200 A	SNA
152	00162 R 600564 R	JMP PINABS
153	00163 R 041005 R	DAC PIN
154	00164 R 201006 R	LAC POS1
155	00165 R 040750 R	LAB4 DAC TEMP
156	00166 R 200774 R	LAC COMPON

PAGE	4	ADDCN3	SRC	ADDCN3
157		00167	R 740031 A	TCA
158		00170	R 340750 R	TAD TEMP
159		00171	R 652000 A	LMQ
160		00172	R 754000 A	CLL!CLA
161		00173	R 640323 A	DIV
162		00174	R 000006 A	6
163		00175	R 641002 A	LACQ
164		00176	R 041010 R	DAC PPTR*
165		00177	R 121020 E	JMS* SUBNOD
166		00200	R 600205 R	JMP .+1+4
167		00201	R 001015 R	.DSA XA*
168		00202	R 001016 R	.DSA YA*
169		00203	R 001010 R	.DSA PPTR
170		00204	R 001005 R	.DSA PIN
171		00205	R 221023 R	LAC* (16
172		00206	R 501024 R	AND (777
173		00207	R 723777 A	AAC -1
174		00210	R 341003 R	TAD LIB
175		00211	R 041000 R	DAC DUMP*
176		00212	R 221000 R	LAC* DUMP
177		00213	R 723775 A	AAC -3
178		00214	R 041000 R	DAC DUMP
179		00215	R 744010 A	RCL
180		00216	R 341000 R	TAD DUMP
181		00217	R 744020 A	RCR
182		00220	R 744020 A	RCR
183		00221	R 041000 R	DAC DUMP
184		00222	R 201005 R	LAC PIN
185		00223	R 740031 A	TCA
186		00224	R 341000 R	TAD DUMP
187		00225	R 741100 A	SPA
188		00226	R 600564 R	JMP PINABS
189		00227	R 221025 R	LAC* (17
190		00230	R 723740 A	AAC -40
191		00231	R 740100 A	SMA
192		00232	R 600632 R	JMP HOLE
193		00233	R 200755 R	LAC ERROR
194		00234	R 740200 A	SZA
195		00235	R 600245 R	JMP .+1+7
196		00236	R 440755 R	ISZ ERROR
197		00237	R 201010 R	LAC PPTR
198		00240	R 041011 R	DAC P1*
199		00241	R 220015 R	LAC* PIN2
200		00242	R 041005 R	DAC PIN*
201		00243	R 201007 R	LAC POS2
202		00244	R 600165 R	JMP LAB4
203		00245	R 777776 A	LAW -2
204		00246	R 040755 R	DAC ERROR
205		00247	R 201010 R	LAC PPTR
206		00250	R 041012 R	DAC P2*
207		00251	R 221006 R	LAC* POS1
208		00252	R 741200 A	SNA

209	00253	R	600400	R	LAB6 /NOTHING IN CON ARRAY
210	00254	R	340775	R	THD CONNEX
211	00255	R	723777	A	AAC -1
212	00256	R	721000	A	PAX
213	00257	R	140750	R	DZM TEMP
214	00260	R	230750	R	LAC* TEMP,X
215	00261	R	501024	R	AND (777
216	00262	R	740001	A	CMA
217	00263	R	040757	R	DAC NOCONN /NO OF CONNEX NEGATIVE
218	00264	R	200750	R	LAC TEMP
219	00265	R	723776	A	AAC -2
220	00266	R	723003	A	BACK1 AAC 3
221	00267	R	040750	R	DAC TEMP
222	00270	R	440757	R	ISZ NOCONN
223	00271	R	741000	A	SKP
224	00272	R	600352	R	JMP HELL
225	00273	R	201011	R	LAC P1
226	00274	R	541012	R	SAD P2
227	00275	R	741000	A	SKP
228	00276	R	600324	R	JMP NOSAME
229	00277	R	230750	R	LAC* TEMP,X
230	00300	R	501026	R	AND (??
231	00301	R	560015	R	SAD* PIN2
232	00302	R	600305	R	JMP .+3
233	00303	R	200750	R	LAC TEMP
234	00304	R	600324	R	JMP NOSAME
235	00305	R	230750	R	LAC* TEMP,X
236	00306	R	744000	A	CLL
237	00307	R	640511	A	LRS 11
238	00310	R	541011	R	SAD P1
239	00311	R	600314	R	JMP .+3
240	00312	R	200750	R	LAC TEMP
241	00313	R	600324	R	JMP NOSAME
242	00314	R	440750	R	ISZ TEMP
243	00315	R	230750	R	LAC* TEMP,X
244	00316	R	501026	R	AND (??
245	00317	R	560013	R	SAD* PIN1
246	00320	R	600640	R	JMP CONART
247	00321	R	200750	R	LAC TEMP
248	00322	R	723777	A	AAC -1
249	00323	R	040750	R	DAC TEMP
250	00324	R	230750	R	NOSAME LAC* TEMP,X
251	00325	R	501026	R	AND (??
252	00326	R	560013	R	SAD* PIN1
253	00327	R	600332	R	JMP .+3
254	00330	R	200750	R	LAC TEMP
255	00331	R	600266	R	JMP BACK1
256	00332	R	230750	R	LAC* TEMP,X
257	00333	R	744000	A	CLL
258	00334	R	640511	A	LRS 11
259	00335	R	541012	R	SAD P2
260	00336	R	600341	R	JMP .+3

PAGE	6	ADDCN3	SRC	ADDCN3
261		00337	R 200750 R	LAC TEMP
262		00340	R 600266 R	JMP BACK1
263		00341	R 440750 R	ISZ TEMP
264		00342	R 230750 R	LAC* TEMP,X
265		00343	R 501026 R	AND (??
266		00344	R 560015 R	SAD* PIN2
267		00345	R 600640 R	JMP CONART /CONNEX ALREADY MADE
268		00346	R 200750 R	LAC TEMP
269		00347	R 723777 A	AAC -1
270		00350	R 040750 R	DAC TEMP
271		00351	R 600266 R	JMP BACK1
272		00352	R 220020 R	HELL LAC* EOCONN
273		00353	R 740001 A	CMA
274		00354	R 361006 R	TAD* POS1
275		00355	R 740030 A	IAC
276		00356	R 040756 R	DAC COUNT
277		00357	R 200775 R	LAC CONNEX
278		00360	R 721000 A	PAX
279		00361	R 220020 R	LAC* EOCONN
280		00362	R 723776 A	AAC -2
281		00363	R 040753 R	DAC ED
282		00364	R 440756 R	CTHA ISZ COUNT
283		00365	R 741000 A	SKP
284		00366	R 600414 R	JMP OUT
285		00367	R 200753 R	LAC ED
286		00370	R 723003 A	AAC 3
287		00371	R 040754 R	DAC JOE
288		00372	R 230753 R	LAC* ED,X
289		00373	R 070754 R	DAC* JOE,X
290		00374	R 200753 R	LAC ED
291		00375	R 723777 A	AAC -1
292		00376	R 040753 R	DAC ED
293		00377	R 600364 R	JMP CTHA
294		00400	R 200775 R	LAB6 LAC CONNEX
295		00401	R 721000 A	PAX
296		00402	R 220020 R	LAC* EOCONN
297		00403	R 723777 A	AAC -1
298		00404	R 040750 R	DAC TEMP
299		00405	R 201011 R	LAC P1
300		00406	R 660711 A	ALSS 11
301		00407	R 070750 R	DAC* TEMP,X
302		00410	R 460020 R	ISZ* EOCONN
303		00411	R 220020 R	LAC* EOCONN
304		00412	R 723777 A	AAC -1
305		00413	R 061006 R	DAC* POS1
306		00414	R 200775 R	OUT LAC CONNEX
307		00415	R 721000 A	PAX
308		00416	R 220020 R	LAC* EOCONN
309		00417	R 723003 A	AAC 3
310		00420	R 060020 R	DAC* EOCONN
311		00421	R 221006 R	LAC* POS1
312		00422	R 723777 A	AAC -1

PAGE	7	ADDN3 SRC	ADDN3
313	00423	R 040750 R	ISZ TEMP
314	00424	R 470750 R	ISZ* TEMP,X
315	00425	R 440750 R	ISZ TEMP
316	00426	R 201012 R	LAC P2
317	00427	R 660703 A	ALSS 3
318	00430	R 360016 R	TAD* WIDTH
319	00431	R 660706 A	ALSS 6
320	00432	R 360013 R	TAD* PIN1
321	00433	R 070750 R	DAC* TEMP,X
322	00434	R 440750 R	ISZ TEMP
323	00435	R 220015 R	LAC* PIN2
324	00436	R 070750 R	DAC* TEMP,X
325	00437	R 440750 R	ISZ TEMP
326	00440	R 220017 R	LAC* MODE
327	00441	R 751100 A	SPA!CLA
328	00442	R 201027 R	LAC (100000 / MARK CONNECTION (USED BY DATAIN)
329	00443	R 070750 R	DAC* TEMP,X
330	00444	R 200774 R	LAC COMPO
331	00445	R 040750 R	DAC TEMP
332	00446	R 360004 R	TAD* EOCOMP
333	00447	R 723777 A	AAC -1
334	00450	R 041004 R	DAC N2
335	00451	R 220750 R	UPDATE LAC* TEMP
336	00452	R 740031 A	TCA
337	00453	R 361006 R	TAD* POS1
338	00454	R 741100 A	SPA
339	00455	R 741000 A	SKP
340	00456	R 600462 R	JMP .+1+3
341	00457	R 220750 R	LAC* TEMP
342	00460	R 723003 A	AAC 3
343	00461	R 060750 R	DAC* TEMP
344	00462	R 200750 R	LAC TEMP
345	00463	R 723006 A	AAC 6
346	00464	R 040750 R	DAC TEMP
347	00465	R 541004 R	SAD N2
348	00466	R 741000 A	SKP
349	00467	R 600451 R	JMP UPDATE
350			/
351			/ ALL POINTERS TO CONNEXIONS FROM D.S. UPDATED
352			/ UPDATE IF NECESSARY DISPLAY FILE ADDRESSES
353			/
354	00470	R 220017 R	LAC* MODE
355	00471	R 740200 A	SZA
356	00472	R 600530 R	JMP NONEED /DONT NEED TO UPDATE POINTERS
357	00473	R 221017 E	LAC* DFADDR /ADR 1ST WORD DFILE
358	00474	R 040773 R	DAC CNTR*
359	00475	R 061030 R	DAC* (13
360	00476	R 360773 R	TAD* CNTR
361	00477	R 040773 R	DAC CNTR /LAST WORD DFILE
362	00500	R 220773 R	LAC* CNTR
363	00501	R 040773 R	DAC CNTR /JMP* AT END OF DILE
364	00502	R 221006 R	LAC* POS1

PAGE	8	ADDCN3	SRC	ADDCN3
365		00503	R 340775 R	TAD CONNEX
366		00504	R 740031 A	TCA
367		00505	R 041014 R	DAC SAVE
368		00506	R 220013 A	LOOPY1 LAC* 13
369		00507	R 540773 R	SAD CNTR
370		00510	R 600530 R	JMP NONEED
371		00511	R 541031 R	SAD (235177
372		00512	R 741000 A	SKP
373		00513	R 600506 R	JMP LOOPY1 /NOT CORRECT SKIP
374		00514	R 220013 A	LAC* 13
375		00515	R 741100 A	SPA
376		00516	R 600506 R	JMP LOOPY1 /POINTS AT COPPER
377		00517	R 341014 R	TAD SAVE*
378				/ IS ADDRESS GREATER THAN THAT OF ADDED CONNEXION
379				/
380		00520	R 741100 A	SPA
381		00521	R 600506 R	JMP LOOPY1 /NO
382		00522	R 221030 R	LAC* (13
383		00523	R 040777 R	DAC DUMMY*
384		00524	R 220777 R	LAC* DUMMY
385		00525	R 723003 A	AAC 3
386		00526	R 060777 R	DAC* DUMMY
387		00527	R 600506 R	JMP LOOPY1
388		00530	R 440755 R	NONEED ISZ ERROR
389		00531	R 741000 A	SKP
390		00532	R 600740 R	JMP ENDP /CONNEXION MADE
391		00533	R 201011 R	LAC P1
392		00534	R 541012 R	SAD P2
393		00535	R 600740 R	JMP ENDP /SELF CONNEXION
394		00536	R 201006 R	LAC POS1
395		00537	R 652000 A	LMQ
396		00540	R 201007 R	LAC POS2
397		00541	R 041006 R	DAC POS1
398		00542	R 641002 A	LACQ
399		00543	R 041007 R	DAC POS2
400		00544	R 201011 R	LAC P1*
401		00545	R 652000 A	LMQ
402		00546	R 201012 R	LAC P2
403		00547	R 041011 R	DAC P1
404		00550	R 641002 A	LACQ
405		00551	R 041012 R	DAC P2
406		00552	R 200013 R	LAC PIN1
407		00553	R 652000 A	LMQ
408		00554	R 200015 R	LAC PIN2
409		00555	R 040013 R	DAC PIN1
410		00556	R 641002 A	LACQ
411		00557	R 040015 R	DAC PIN2
412		00560	R 221006 R	LAC* POS1
413		00561	R 740200 A	SZA
414		00562	R 600352 R	JMP HELL
415		00563	R 600400 R	JMP LAB6
416		00564	R 100742 R	PINABS JMS QINIT

417

```
00565 R 002775 A *G .WRITE -3.2,NOPAD,34
00566 R 000011 A *G CAL+2*1000 -3&777
00567 R 000702 R *G 11
          *G NOPAD
          *G .DEC
          *G -34
```

418

00571 R 600726 R JMP END

419

00572 R 100742 R FULLUP JMS QINIT

420

```
          .WRITE -3.2,FULCON,34
00573 R 002775 A *G CAL+2*1000 -3&777
00574 R 000011 A *G 11
00575 R 000662 R *G FULCON
          *G .DEC
          *G -34
```

421

00577 R 600726 R JMP END

422

00600 R 100742 R ABSENT JMS QINIT

423

00601 R 201001 R LAC FLAG1

424

00602 R 740200 A SZA

425

00603 R 600611 R JMP .+6

426

00604 R 220012 R LAC* NAME1

427

00605 R 040716 R DAC ABSCOM+6

428

00606 R 220751 R LAC* NAME11

429

00607 R 040717 R DAC ABSCOM+7

430

00610 R 100622 R JMS WRITIT

431

00611 R 201002 R LAC FLAG2

432

00612 R 740200 A SZA

433

00613 R 600736 R JMP ENDA

434

00614 R 220014 R LAC* NAME2

435

00615 R 040716 R DAC ABSCOM+6

436

00616 R 220752 R LAC* NAME22

437

00617 R 040717 R DAC ABSCOM+7

438

00620 R 100622 R JMS WRITIT

439

00621 R 600736 R JMP ENDA

440

00622 R 740040 A WRITIT XX

441

```
          .WRITE -3.2,ABSCOM,34
00623 R 002775 A *G CAL+2*1000 -3&777
00624 R 000011 A *G 11
00625 R 000710 R *G ABSCOM
          *G .DEC
          *G -34
```

442

00626 R 777736 A *G .WAIT -3

00627 R 000775 A *G CAL -3&777

00630 R 000012 A *G 12

443

00631 R 620622 R JMP* WRITIT

444

00632 R 100742 R HOLE JMS QINIT

445

```
          .WRITE -3.2,HOL,34
00633 R 002775 A *G CAL+2*1000 -3&777
00634 R 000011 A *G 11
00635 R 000674 R *G HOL
          *G .DEC
          *G -34
```

446

00637 R 600726 R JMP END

PAGE	10	ADDCN3	SRC	ADDCN3
447		00640	R 100742	R CONART JMS QINIT
448				.WRITE -3,2,CON,34
		00641	R 002775	A *G CAL+2*1000 -3&777
		00642	R 000011	A *G 11
		00643	R 000654	R *G CON
				*G .DEC
		00644	R 777736	A *G -34
449		00645	R 600726	R JMP END
450		00646	R 100742	R SAMPAD JMS QINIT
451				.WRITE -3,2,ODD,34
		00647	R 002775	A *G CAL+2*1000 -3&777
		00650	R 000011	A *G 11
		00651	R 000720	R *G ODD
				*G .DEC
		00652	R 777736	A *G -34
452		00653	R 600726	R JMP END
453		00654	R 002002	A CON 2002: 0
		00655	R 000000	A
454		00656	R 422532	A .ASCII /DUPL CONN/<15>
		00657	R 046100	A
		00660	R 416371	A
		00661	R 647032	A
455		00662	R 002002	A FULCON 2002
456		00663	R 000000	A 0
457		00664	R 416371	A .ASCII /CONN ARRAY FULL/<15>
		00665	R 647100	A
		00666	R 406452	A
		00667	R 240662	A
		00670	R 202152	A
		00671	R 546230	A
		00672	R 064000	A
		00673	R 000000	A
458		00674	R 002002	A HOL 2002: 0
		00675	R 000000	A
459		00676	R 502030	A .ASCII /PAD TYPE?/<15>
		00677	R 420250	A
		00700	R 546410	A
		00701	R 537432	A
460		00702	R 002002	A NOPAD 2002: 0
		00703	R 000000	A
461		00704	R 502030	A .ASCII /PAD NO?/<15>
		00705	R 420234	A
		00706	R 475761	A
		00707	R 500000	A
462		00710	R 002002	A ABSCOM 2002: 0
		00711	R 000000	A
463		00712	R 416371	A .ASCII /COMP ABS/
		00713	R 550100	A
		00714	R 406052	A
		00715	R 300000	A
464		00716	R 000000	A 0
465		00717	R 000000	A 0

```
466 00720 R 002002 A ODD 2002: 0
00721 R 000000 A
467 00722 R 476110 A .ASCII /ODD CONN<15>
00723 R 420206 A
00724 R 476351 A
00725 R 606400 A
468 00726 R END .WRITE -3,2,MESS1,34
00726 R 002775 A *G CAL+2*1000 -3&777
00727 R 000011 A *G 11
00730 R 000763 R *G MESS1
*G .DEC
*G -34
469 00731 R 777736 A *G .WRITE -3,2,MESS2,34
00732 R 002775 A *G CAL+2*1000 -3&777
00733 R 000011 A *G 11
00734 R 000767 R *G MESS2
*G .DEC
*G -34
470 00736 R 750000 A ENDA CLA
471 00737 R 741000 A SKP
472 00740 R 750001 A ENDP CLC
473 00741 R 620007 R JMP* ADDCN3
474 00742 R 740040 A QINIT XX
475 00743 R START .INIT -3,1,START
00743 R 001775 A *G CAL+1*1000 -3&777
00744 R 000001 A *G 1
00745 R 000743 R *G START+0
00746 R 000000 A *G 0
476 00747 R 620742 R JMP* QINIT
477 00750 R 740040 A TEMP XX
478 00751 R 740040 A NAME11 XX
479 00752 R 740040 A NAME22 XX
480 00753 R 740040 A ED XX
481 00754 R 740040 A JOE XX
482 00755 R 740040 A ERROR XX
483 00756 R 740040 A COUNT XX
484 00757 R 740040 A NOCONN XX
485 00760 R 740040 A TT XX
486 00761 R 740040 A PADS XX
487 00762 R 740040 A REM XX
488 00763 R 002002 A MESS1 2002
489 00764 R 000000 A 0
490 00765 R 000000 A 0
491 00766 R 000000 A 0
492 00767 R 002002 A MESS2 2002
493 00770 R 000000 A 0
494 00771 R 000000 A 0
495 00772 R 000000 A 0
496 000000 A .END
01017 R 001017 E *E
01020 R 001020 E *E
01021 R 001021 E *E
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PAGE 12 ADDCN3 SRC ADDCN3

01022 R 777400 A *L
01023 R 000016 A *L
01024 R 000777 A *L
01025 R 000017 A *L
01026 R 000077 A *L
01027 R 100000 A *L
01030 R 000013 A *L
01031 R 235177 A *L

SIZE=01032 NO ERROR LINES

ABSCOM	00710	427	429	435	437	441	462*		
ABSENT	00600	97	422*						
ADDCN3	00007	1	36	44*	473				
BACK1	00266	220*	255	262	271				
CNTR	00773	358	360	361	362	363	369		
COMPON	00774	60	64	92	156	330			
COMPS	00001	38*	38	59					
CON	00654	448	453*						
CONART	00640	246	267	447*					
CONN	00005	42*	55						
CONNEX	00775	56	210	277	294	306	365		
CONSZ	00776	63	89						
COUNT	00756	276	282	483*					
CTHA	00364	282*	293						
DFADDR	01017	36	357						
DUMMY	00777	383	384	386					
DUMP	01000	175	176	178	180	183	186		
ED	00753	281	285	288	290	292	480*		
END	00726	418	421	446	449	452	468*		
ENDA	00736	433	439	470*					
ENDP	00740	390	393	472*					
EOCOMP	00004	41*	65	332					
EOCONN	00020	54*	86	272	279	296	302	303	308
		310							
EOLIB	00003	40*							
ERROR	00755	69	119	138	193	196	204	388	482*
FINDIT	00070	94*	139	142					
FLAG1	01001	84	118	423					
FLAG2	01002	85	137	431					
FULCON	00662	420	455*						
FULLUP	00572	91	419*						
HELL	00352	224	272*	414					
HOL	00674	445	458*						
HOLE	00632	192	444*						
JOE	00754	287	289	481*					
LAB1	00147	102	128	134	141*				
LAB2	00124	110	115	122*					
LAB3	00151	121	140	143*					
LAB4	00165	155*	202						
LAB6	00400	209	294*	415					
LIB	01003	58	174						
LIBRY	00000	37*	37	57					
LOOPY1	00506	368*	373	376	381	387			
MESS1	00763	77	79	468	488*				
MESS2	00767	81	83	469	492*				
MODE	00017	52*	326	354					
NAME1	00012	47*	70	76	108	426			
NAME11	00751	72	78	112	428	478*			
NAME2	00014	49*	73	80	126	434			
NAME22	00752	75	82	131	436	479*			
NOCONN	00757	217	222	484*					
NONEED	00530	356	370	388*					
NOPAD	00702	417	460*						

NOSAME	00324	228	234	241	250*				
N2	01004	67	96	334	347				
ODD	00720	451	466*						
OUT	00414	284	306*						
PADS	00761	486*							
PIN	01005	153	170	184	200				
PINABS	00564	152	188	416*					
PIN1	00013	48*	143	150	245	252	320	406	409
PIN2	00015	50*	144	199	231	266	323	408	411
POS1	01006	117	147	154	207	274	305	311	337
		364	394	397	412				
POS2	01007	136	148	201	396	399			
PPTR	01010	164	169	197	205				
P1	01011	198	225	238	299	391	400	403	
P2	01012	206	226	259	316	392	402	405	
QINIT	00742	416	419	422	444	447	450	474*	476
RELPT	01013	95	116	135	141				
REM	00762	487*							
ROUTES	00006	43*							
SAMPAD	00646	149	450*						
SAVE	01014	367	377						
SIZE	00002	39*	39	61					
START	00743	475*	475						
SUBNOD	01020	36	165						
TEMP	00750	99	100	103	105	106	107	111	122
		124	125	129	130	155	158	213	214
		218	221	229	233	235	240	242	243
		247	249	250	254	256	261	263	264
		268	270	290	301	313	314	315	321
		322	324	325	329	331	335	341	343
		344	346	477*					
TT	00760	485*							
UPDATE	00451	335*	349						
WIDTH	00016	51*	318						
WRITIT	00622	430	438	440*	443				
XA	01015	167							
YA	01016	168							
DA	01021	36	45						